

IN THE CLAIMS:

Please amend the claims as indicated below.

1. (Currently Amended) A wireless communication device, comprising:  
5           a controller to control transmission of data at a transmission data rate and to control retransmission of said data at a retransmission data rate, wherein said retransmission is performed if an acknowledgement is not received for a current frame; and  
            a rate selection fallback mechanism that progressively reduces said retransmission data rate that reduces a retransmission rate only for a current frame of said transmitted data if an  
10 acknowledgement is not received for said current frame, wherein said reduced retransmission rate is progressively decreased to at least one of two or more lower retransmission data rates only for said current frame if an acknowledgement is not received for a current frame.
2. (Currently Amended) The wireless communication device of claim 1, wherein said  
15 retransmission data rate is not reduced until a predefined number of equal rate attempts have been performed.
3. (Currently Amended) The wireless communication device of claim 1, wherein a transmission  
20 data rate for a subsequent frame is selected based on an available signal quality.
4. (Currently Amended) The wireless communication device of claim 1, wherein said retransmission data rate is progressively reduced until an acknowledgement is received for said current frame or a retry count for said current frame is exceeded.
- 25 5. (Currently Amended) The wireless communication device of claim 1, wherein said retransmission data rate is selected from a table of available rates.

6. (Original) The wireless communication device of claim 5, wherein said table of available rates is populated with at least a portion of rates supported by a receiving station.

7. (Currently Amended) The wireless communication device of claim 1, wherein said retransmission data rate is determined by an algorithm that selects said retransmission data rate based on current conditions

8. (Original) The wireless communication device of claim 1, wherein said device is implemented in accordance with the IEEE 802.11 Standard.

9. (Currently Amended) The wireless communication device of claim 1, wherein said rate fallback selection mechanism restores a transmission data rate that was in use before said retransmission data rate was reduced.

10. (Currently Amended) The wireless communication device of claim 1, wherein said rate fallback selection mechanism proceeds directly to a fallback state if a signal quality is not sufficient to support a data rate associated with an equal rate retry.

11. (Currently Amended) A method for wireless communication, comprising the steps of:

transmitting one or more frames at a transmission data rate and retransmitting said data at a retransmission data rate, wherein said retransmission is performed if an acknowledgement is not received for a current frame; and

reducing a retransmission rate only for a current frame when an acknowledgement is not received for said current frame, wherein said reduced retransmission data rate is progressively reduced decreased to at least one of two or more lower retransmission data rates if an acknowledgement is not received for a current frame.

12. (Original) The method of claim 11, further comprising the step of performing a number of equal rate attempts before performing said reducing step.

5 13. (Currently Amended) The method of claim 11, further comprising the step of selecting a transmission data rate for a subsequent frame based on an available signal quality.

10 14. (Original) The method of claim 11, wherein said reducing step is performed iteratively until an acknowledgement is received for said current frame or a retry count for said current frame is exceeded.

15. (Currently Amended) The method of claim 11, wherein said reducing step further comprises the step of selecting said retransmission data rate from a table of available rates.

15 16. (Original) The method of claim 15, wherein said table of available rates is populated with at least a portion of rates supported by a receiving station.

17. (Currently Amended) The method of claim 11, wherein said reducing step further comprises the step of selecting said retransmission data rate based on current conditions.

20 18. (Original) The method of claim 11, wherein said method is performed in accordance with the IEEE 802.11 Standard.

25 19. (Currently Amended) The method of claim 11, further comprising the step of restoring a transmission data rate that was in use before said retransmission data rate was reduced.

20. (Original) The method of claim 11, wherein said reducing step proceeds directly to a fallback state if a signal quality is not sufficient to support a data rate associated with an equal rate retry.

21 (Currently Amended) A wireless communication device, comprising:

a controller to control transmission of data at a transmission data rate and to control retransmission of said data at a retransmission data rate, wherein said retransmission is performed if an acknowledgement is not received for a current frame; and

5           a rate selection fallback mechanism that progressively reduces said retransmission data rate that reduces a retransmission rate only for a current frame of said transmitted data if an acknowledgement is not received for said current frame and increases said retransmission rate for a subsequent frame, wherein said reduced retransmission rate is progressively decreased to at least one of two or more lower retransmission data rates only for said current frame if an  
10 acknowledgement is not received for a current frame and to increase said retransmission data rate for a subsequent frame.

22 (Currently Amended) The wireless communication device of claim 21, wherein said retransmission data rate is not reduced until a predefined number of equal rate attempts have  
15 been performed.

23. (Currently Amended) The wireless communication device of claim 21, wherein a transmission data rate for a subsequent frame is selected based on an available signal quality.

20 24. (Currently Amended) The wireless communication device of claim 21, wherein said retransmission data rate is progressively reduced until an acknowledgement is received for said current frame or a retry count for said current frame is exceeded.

25 25. (Currently Amended) The wireless communication device of claim 21, wherein said rate ~~fallback~~ selection mechanism restores a transmission data rate that was in use before said retransmission data rate was reduced.